PTO/SB/05 (05-03)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY	Attorney Docket No.	1875.4140000
PATENT APPLICATION	First Inventor	Amit P. AGRAWAL
PAILINI APPLICATION		· . · • · · · · · · · · · · · · · · · ·

TRANSMITTAL (Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney	Docket No.	Docket No. 1875.4140000				
First Inv	t Inventor Amit P. AGRAWAL					
Title	High Data Rate Differential Signal Line Design for Uniform Characteristic Impedance for High Performance Integrated Circuit Packages					
Express	Mail Label No.					

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450						
 Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) Applicant claims small entity status. 	 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) 						
See 37 CFR 1.27. 3. ☑ Specification [Total Pages 12]	a. Computer Readable Form (CRF)b. Specification Sequence Listing on:						
(preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D	i. CD-ROM or CD-R (2 copies); or ii. paper						
 Reference to sequence listing, a table, or a computer program listing appendix 	c. Statements verifying identity of above copies						
 Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed) 	ACCOMPANYING APPLICATION PARTS						
- Detailed Description - Claim(s) - Abstract of the Disclosure	9. Assignment Papers (cover sheet & documents)						
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 3]	10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)						
5. Oath or Declaration [Total Pages]	11. English Translation Document (if applicable)						
 a. Newly executed (facsimile copy) b. Copy from a prior application (37 CFR 1.63(d)) 	12. Information Disclosure Copies of IDS Citations						
(for continuation/divisional with Box 18 completed)	13. Preliminary Amendment						
i. ☐ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b). 6. ☑ Application Data Sheet. See 37 CFR 1.76.	14. Two (2) Return Receipt Postcards (MPEP 503) (Should be specifically itemized)						
	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)						
	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.						
	17. Other: Authorization under 37 C.F.R. § 1.136(a)(3)						
	Other: The name of the assignee is: Broadcom Corporation						
18. If a CONTINUING APPLICATION, check appropriate box, and supply Data Sheet under 37 CFR 1.76:	v the requisite information below and in a preliminary amendment, or in an Application						
Continuation Divisional Continuation-in-Part (CIP) of prior application No:/ Prior application information: Examiner Group/Art Unit:							
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
19. CORRESPO	NDENCE ADDRESS						
Customer Number or Bar Code Label Customer No. 26111 PATENT TRADEMARK OFFICE							
NAME STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.							
Attorneys at Law MANE (Print/Time) Theodore A. Wood	Designation No. (11)						
NAME (Print/Type) Theodore A. Wood	Registration No. (Attorney/Agent) 52,374						
This collection of information is required by 27 CER 1 52(b). The information is	Date June 25, 2003						

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

June 25, 2003

Date

		Complete if Kr			Complete if k	Cnown		
FEE TRANSMITTAL	Application Number			mber	To Be Assigned			
for FY 2003		Filing Date			Herewith	Herewith		
Patent fees are subject to annual revision.		First Named Inventor			Amit P. AG	Amit P. AGRAWAL		
Applicant claims small entity status. See 37 CFR 1.27	— [Examine	r Name	e	To B Ass	To B Assigned		
- 	— Ì	Art Unit			T B Ass			
AMOUNT OF PAYMENT (\$) 790.00		Attorney	Docke	et No.	1875.41400	000		
O METHOD OF PAYMENT (check all that apply)				F	EE CALCULATION (continued)		
☐ Check 🂢 Credit card ☐ Money Order 💆 Other** ☐ None	3. ADDITIONAL FEES							
** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.		Large Entity Small Entity						
Deposit Account Deposit Account Number 19-0036	Fee Code	Fee Fee (\$) Co			Fee Description		Fee Paid	
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.			2051	65	Surcharge - late filing f			
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provision sheet	onal filing fee or cover		
☐ Charge fee(s) indicated below ☐ Credit any over payments		130	1053	130	Non-English specificat			
Charge any additional fee(s) during the pendency of this		2,520	1812	2,520) For filing a request for			
application	1804	920*	1804	920*	Requesting publication action	of SIR prior to Examiner		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1,840*	1805	1,840				
	1251	110	2251	55	Extension for reply with	hin first month		
	1252	410	2252	205	205 Extension for reply within second month			
FEÉ CALCULATION	ION 1253 930 2253 465 Extension for reply within third month		hin third month					
1. BASIC FILING FEE	1254	1,450	2254	725	Extension for reply with	hin fourth month	_	
Large Entity Small Entity	1255	1,970	2255	985	Extension for reply with	hin fifth month		
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1401	320	2401	160	Notice of Appeal			
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee \$750.00	1402	320	2402	160	Filing a brief in support	t of an appeal		
1002 330 2002 165 Design filing fee	1403	3 280	2403	140	Request for oral hearing			
1003 520 2003 260 Plant filing fee	1451	1,510	1451	1,510	Petition to institute a p	ublic use proceeding		
004 750 2004 375 Reissue filing fee		2 110	2452	55	Petition to revive - una	voidable		
1105 160 2005 80 Provisional filing fee	145	3 1,300	2453	650	Petition to revive - unir	ntentional		
SUBTOTAL (1) (\$) 750.00	1501	1,300	2501	650	Utility issue fee (or reis	ssue)	-	
. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		2 470	2502	235	Design issue fee			
Fee from Extra below Fee Paid	1503	3 630	2503	315	Plant issue fee			
Total Claims <u>20</u> - 20** = <u>0</u> X <u>18.00</u> = <u>\$0.00</u>	1460	130	1460	130	Petitions to the Comm	issioner		
Indep. Claims 2 - 3** = 0 X 84.00 = \$0.00 Multiple Dependent =	1807	7 50	1807	50	Processing fee under	37 CFR 1.17(q)		
Large Entity Small Entity	1806	6 180	1806	180	Submission of Informa	tion Disclosure Stmt	-	
Fee Fee Fee Fee Fee Description Code (\$)	802 ⁻	1 40	8021	40	Recording each patent property (times numbe	t assignment per r of properties)	\$40.00	
1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3	1809	9 750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))			
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be examined			
1204 84 2204 42 **Reissue independent claims	180°	1 750	2801	375	(37 CFR 1.129(b))			
over original patent	1		1		•	Request for Continued Examination (RCE)		
1205 18 2205 9 **Reissue claims in excess of 20	1802	2 900	1802	900	OO Request for expedited examination of a design application			
and over original patent	Other	Other fee (specify)						
SUBTOTAL (2) (\$) 0.00 or number previously paid, if greater, For Reissue, see above * Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00).00			
SUBMITTED BY Complete (if applicable)								
Name (Print/Type) Theodore A. Wood	Registration No. 52 274 Tolophone 202-371-2600			-2600				
1	(Attor	rney/Age	nt)	- 1	Q_,Q, 1	1 . 5.00		

Ulc e.

Signature

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*Admitted only in Maryland
' Admitted only in Virginia
^Admitted only in Texas
•Practice Limited to Federal Agencies

June 25, 2003

WRITER'S DIRECT NUMBER: (202) 772-8520 **INTERNET ADDRESS:** TWOOD@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. (To Be Assigned); Filed: Herewith

For: High Data Rate Differential Signal Line Design for Uniform Characteristic Impedance for High Performance Integrated Circuit Packages

Inventor:

Amit P. AGRAWAL

Our Ref:

1875.4140000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

High Data Rate Differential Signal Line Design for Uniform Characteristic Impedance for High Performance Integrated Circuit Packages

and naming as inventor:

Amit P. AGRAWAL

the application consisting of:

- An Application Data Sheet (37 C.F.R. § 1.76); a.
- A facsimile copy of the original executed Declaration; b.

Sterne, Kessler, Goldstein & Fox Pllc.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents June 25, 2003 Page 2

- c. A specification containing:
 - i. 7 pages of description prior to the claims;
 - ii. 4 pages of claims (20 claims 2 Independent);
 - iii. a one (1) page abstract;
- d. <u>3</u> sheets of drawings: (Figures <u>1-3</u>);
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. A facsimile copy of the original executed Assignment to <u>Broadcom</u> <u>Corporation</u>, recordation of which is hereby respectfully requested;
- 7. Two (2) return postcards; and
- 8. Credit Card Payment Form PTO-2038 for \$790.00 to cover: \$750.00 Filing fee for patent application; and \$40.00 Assignment recordation fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Theodore A. Wood Attorney for Applicant Registration No. 52,374

Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of:

Amit P. AGRAWAL

Appl. No. To Be Assigned

Filed: Herewith

For:

High Data Rate Differential Signal Line

Design for Uniform Characteristic Impedance for High Performance **Integrated Circuit Packages**

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Confirmation No.: To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.4140000

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Theodore A. Wood Attorney for Applicant Registration No. 52,374

Date: June 25, 2003

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600